




CASE D0072 NP

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Stephen C. D'Amico
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1-19-05
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Art Unit: 1652

JACKSON ET AL.

Examiner: SWOPE, SHERIDAN

APPLICATION NO: 10/029,345

FILED: DECEMBER 20, 2001

FOR: POLYNUCLEOTIDES ENCODING THE NOVEL HUMAN
PHOSPHATASE, RET31, AND VARIANTS THEREOF

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
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FEE LETTER FOR INFORMATION DISCLOSURE STATEMENT

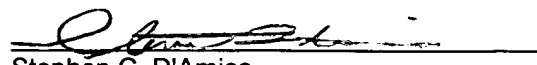
Sir:

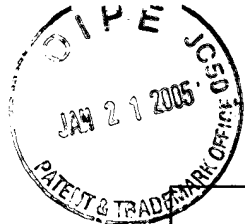
Please charge Deposit Account No. 19-3880 in the name of Bristol-Myers Squibb Company in the amount of \$180 for payment of the fee pursuant to 37 CFR §1.17(p) for the submission of an Information Disclosure Statement under 37 CFR §1.97(c).

An additional copy of this paper is here enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 19-3880 in the name of Bristol-Myers Squibb Company.

Respectfully submitted,

Bristol-Myers Squibb Company
Patent Department
P.O. Box 4000
Princeton, NJ 08543-4000
(609) 252-5289
Date: 1-19-05


Stephen C. D'Amico
Agent for Applicants
Reg. No. 46,652



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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is being filed in accordance with 37 C.F.R. §1.97(c).
A letter for payment of fee set forth in 37 C.F.R. §1.17(p) is enclosed.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.


Copies of these references are enclosed herewith.

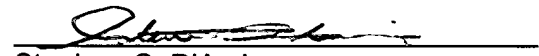
01/25/2005 SSANDARA 00000009 193880 10029345

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The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

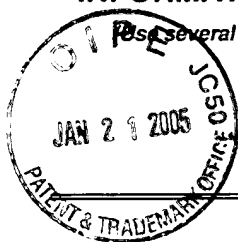

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FORM PTO-1449
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Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	5,849.902	12/15/98	Arrow, et al.			
	AB	6,664,089 B2	12/16/03	Meyers, R.A.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AM						<input type="checkbox"/>	<input type="checkbox"/>
	AN						<input type="checkbox"/>	<input type="checkbox"/>
	AO						<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
	AQ						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AR	Altschul, et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res., Vol. 25(17), pp. 3389-3402 (1997)
	AS	Altschul, et al., "Basic Local Alignment Search Tool", J. Mol. Biol., Vol. 215, pp. 403-410 (1990)
	AT	Arfin, et al., "Eukaryotic methionyl aminopeptidases: Two classes of cobalt-dependent enzymes", PNAS, Vol. 92, pp. 7714-7718 (1995)

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2AB	Bazan, et al., "Sequence and structure comparison suggest that methionine aminopeptidase, prolidase, aminopeptidase P, and creatinase share a common fold", PNAS, Vol. 91, pp. 2473-2477 (1994)
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2AE	Bradshaw, et al., "N-Terminal processing: the methionine aminopeptidase and N ^α -acetyl transferase families", TIBS, Vol. 23, pp. 263-267 (1998)
2AF	Burge, et al., "Prediction of Complete Gene Structures in Human Genomic DNA", JMB, Vol. 268, pp. 78-94 (1997)
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2AH	Cardozo, et al., "Homology Modeling by the ICM Method", Proteins, Vol. 23, pp. 403-414 (1995)
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2AJ	Chang, et al., "Molecular Cloning, Sequencing, Deletion, and Overexpression of a Methionine Aminopeptidase Gene from <i>Saccharomyces cerevisiae</i> ", JBC., Vol. 267(12), pp. 8007-8011 (1992)
2AK	Charbonneau, et al., "The leukocyte common antigen (CD45): A putative receptor-linked protein tyrosine phosphatase", PNAS, Vol. 85, pp. 7182-7186 (1988)
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2AM	Chernoff, et al., "Cloning of a cDNA for a major human protein-tyrosine-phosphatase", PNAS, Vol. 87, pp. 2735-2739 (1990)
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3AA	Datta, Bansidhar, "MAPs and POEP of the roads from prokaryotic to eukaryotic kingdoms", Biochimie, Vol. 82, pp. 95-107 (2000)
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3AH	Frohman, et al., "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer", PNAS, Vol. 85, pp. 8998-9002 (1988)
3AI	Gerner, et al., "The Fas-induced Apoptosis Analyzed by High Throughput Proteome Analysis", JBC, Vol. 275(5), pp. 39018-39026 (2000)
3AJ	Gloria-Bottini, et al., "Phosphotyrosine-Protein-Phosphatases And Human Reproduction: An Association Between Low Molecular Weight Acid Phosphatase (ACP1) And Spontaneous Abortion", Disease Markers, Vol. 12, pp. 261-269 (1996)
3AK	Greer, Jonathan, "Comparative Modeling of Homologous Proteins", Methods in Enzymology, Vol. 202, pp. 239-253 (1991)
3AL	Goodford, P.J., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules", J. Med. Chem., Vol. 28, pp. 849-857 (1985)
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3AN	Gu, et al., "Identification, cloning, and expression of a cytosolic megakaryocyte protein-tyrosine-phosphatase with sequence homology to cytoskeletal protein 4.1", PNAS, Vol. 88, pp. 5867-5871 (1991)

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4AA	Hanks, et al., "The Protein Kinase Family: Conserved Features and Deduced Phylogeny of the Catalytic Domains", Science, Vol. 241, pp. 42-52 (1988)
4AB	Hariharan, et al., "Cloning and characterization of a receptor-class phosphotyrosine phosphatase gene expressed on central nervous system axons in <i>Drosophila melanogaster</i> ", PNAS, Vol. 88, pp. 11266-11270 (1991)
4AC	Hendlich, et al., "Identification of Native Protein Folds Amongst a Large Number of Incorrect Models", J. Mol. Biol., Vol. 216, pp. 167-180 (1990)
4AD	Henikoff, et al., "Amino acid substitution matrices from protein blocks", PNAS, Vol. 89, pp. 10915-10919 (1992)
4AE	Herlaar, et al., "p38 MAPK signaling cascades in inflammatory disease", Molec. Med. Today, Vol. 5, pp. 439-447 (1999)
4AF	Hunter, Tony, "Protein-Tyrosine Phosphatases: The Other Side of the Coin", Cell, Vol. 58, pp. 1013-1016 (1989)
4AG	Hunter, Tony, "A Tail of Two src's: Mutatis Mutandis", Cell, Vol. 49, pp. 1-4 (1987)
4AH	Hunter, et al., "Protein-Tyrosine Kinases", Ann. Rev. Biochem., Vol. 54, pp. 897-930 (1985)
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4AK	Kaplan, et al., "Cloning of three human tyrosine phosphatases reveals a multigene family of receptor-linked protein-tyrosine-phosphatases expressed in brain", PNAS, Vol. 87, pp. 7000-7004 (1990)
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4AM	Keeling, et al., "Methionine aminopeptidase-1: the MAP of the mitochondrion?", TIBS, pp. 285-286 (1996)
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5AD	Kuntz, et al., "A Geometric Approach to Macromolecule-Ligand Interactions", J. Mol. Biol., Vol. 161, pp. 269-288 (1982)
5AE	Kunkel, Thomas A., "Rapid and efficient site-specific mutagenesis without phenotypic selection", PNAS, Vol. 82, pp. 488-492 (1985)
5AF	Kusaka, et al., "Cytostatic inhibition of endothelial cell growth by the antiogenesis inhibitor TNP-470 (AGM-1470), Br. J. Cancer, Vol. 69, pp. 212-216 (1994)
5AG	Lee, et al., "Paclitaxel (Taxol)-induced Gene Expression and Cell Death Are Both Mediated by the Activation of c-Jun NH ₂ -terminal Kinase (JNK/SAPK), JBC, Vol. 273(43), pp. 28253-28260 (1998)
5AH	Lesk, et al., "Homology modeling: inferences from tables of aligned sequences", Curr. Opin. Struc. Biol., Vol. 2, pp. 242-247 (1992)
5AI	Levitt, Michael, "Accurate Modeling of Protein Conformation by Automatic Segment Matching", J. Mol. Biol., Vol 226, pp. 507-533 (1992)
5AJ	Li, et al., "Amino-terminal protein processing in <i>Saccharomyces cerevisiae</i> is an essential function that requires two distinct methionine aminopeptidases", PNAS, Vol. 92, pp. 12357-12361 (1995)
5AK	Lin, et al., "β-Catenin, a novel prognostic marker for breast cancer: Its roles in cyclin D1 expression and cancer progression", PNAS, Vol. 97(8), pp. 4262-4266 (2000)
5AL	Lombroso, et al., "Molecular characterization of a protein-tyrosine-phosphatase enriched in striatum", PNAS, Vol. 88, pp. 7242-7246 (1991)
5AM	Lowther, et al., "Structure and function of the methionine aminopeptidases", Bioch. Biophys. Acta, Vol. 1477, pp. 157-167 (2000)
5AN	Matthews, et al., "Identification of an additional member of the protein-tyrosine-phosphatase family: Evidence for alternative splicing in the tyrosine phosphatase domain", PNAS, Vol. 87, pp. 4444-4448 (1990)

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6AA	Michaelson, et al., "β-catenin is a downstream effector of Wnt-mediated tumorigenesis in the mammary gland", <i>Oncogene</i> , Vol. 20, pp. 5093-5099 (2001)
6AB	Martin, Yvonne C., "3D Database Searching in Drug Design", <i>J. Med. Chem.</i> , Vol. 35(12), pp. 2145-2154 (1992)
6AC	Masuda, et al., "MKP-7, a Novel Mitogen-activated Protein Kinase Phosphatase, Functions as a Shuttle Protein", <i>JBC</i> , Vol. 276(42), pp. 39002-39011 (2001)
6AD	Morla, et al., "Dephosphorylation Accompanies Activation during Entry into Mitosis", <i>Cell</i> , Vol. 58, pp. 193-203 (1989)
6AE	Musgrove, et al., "Cyclins and Breast Cancer", <i>J. Mammary Gland Biology Neoplasia</i> , Vol. 1(2), pp. 153-162 (1996)
6AF	Mustelin, et al., "Rapid activation of the T-cell tyrosine protein kinase pp 56 ^{lck} by the CD45 phosphotyrosine phosphatase", <i>PNAS</i> , Vol. 86, pp. 6302-6306 (1989)
6AG	Nagase, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. III. The Coding Sequences of 40 New Genes (KIAA0081-KIAA0120) Deduced by Analysis of cDNA Clones from Human Cell Line KG-1", <i>DNA Res.</i> , Vol. 2, pp. 37-43 (1995)
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6AI	Nguyen, et al., "Prostatic Acid Phosphatase in Serum of Patients with Prostatic Cancer is a Specific Phosphotyrosine Acid Phosphatase", <i>Clin. Chem.</i> , Vol. 36(8), pp. 1450-1455 (1990)
6AJ	Novotny, et al., "Criteria That Discriminate Between Native Proteins and Incorrectly Folded Models", <i>Proteins</i> , Vol. 4, pp. 19-30 (1988)
6AK	Nurse, Paul, "Universal control mechanism regulating onset of M-phase", <i>Nature</i> , Vol. 344, pp. 503-508 (1990)
6AL	Ohagi, et al., "Sequence of a cDNA encoding human LRP (leukocyte common antigen-related peptide)", <i>Nucleic Acids Res.</i> , Vol. 18(23), pp. 7159 (1990)
6AM	Ostergaard, et al., "Expression of CD45 alters phosphorylation of the <i>lck</i> -encoded tyrosine protein kinase in murine lymphoma T-cell lines", <i>PNAS</i> , Vol. 86, pp. 8959-8963 (1989)
6AN	Pearson, William R., "Rapid and Sensitive Sequence Comparison with FASTP and FASTA", <i>Methods in Enzymol.</i> , Vol. 183, pp. 63-98 (1990)

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7AA	Ralph, et al., "Structural variants of human T200 glycoprotein (leukocyte-common antigen)", EMBO J., Vol. 6(5), 1251-1257 (1987)
7AB	Sap, et al., "Cloning and expression of a widely expressed receptor tyrosine phosphatase", PNAS, Vol. 87, pp. 6112-6116 (1990)
7AC	Schaefer, Brian C., "Revolutions in Rapid Amplification of cDNA Ends: New Strategies for Polymerase Chain Reaction Cloning of Full-Length cDNA Ends", Anal. Biochem., Vol. 227, pp. 255-273 (1995)
7AD	Seidman, et al., "The Role of ERK $\frac{1}{2}$ and p38 MAP-Kinase Pathways in Taxol-Induced Apoptosis in Human Ovarian Carcinoma Cells", Experimental Cell Res., Vol. 268, pp. 84-92 (2001)
7AE	Shimohama, et al., "Reduction of Low-Molecular-Weight Acid Phosphatase Activity in Alzheimer Brains", Ann. Neurol., Vol. 33, pp. 616-621 (1993)
7AF	Sin, et al., "The anti-angiogenic agent fumagillin covalently binds and inhibits the methionine aminopeptidase, MetAP-2", PNAS, Vol. 04, pp. 6099-6103 (1997)
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7AH	Stewart, et al., "Crystal structure of the MAPK phosphatase Pyst 1 catalytic domain and implications for regulated activation", Nature Struc. Biol., Vol. 6(2), pp. 174-181 (1999)
7AI	Streuli, et al., "A family of receptor-linked protein tyrosine phosphatases in humans and <i>Drosophila</i> ", PNAS, Vol. 86, pp. 8698-8702 (1989)
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7AL	Tanoue, et al., "A Novel MAPK Phosphatase MKP-7 Acts Preferentially on JNK/SAPK and p38 α and β MAPKs", JBC, Vol. 276(28), pp. 26629-26639 (2001)
7AM	Taylor, et al., "The rapid generation of oligonucleotide-directed mutations at high frequency using phosphorothioate-modified DNA", Nucleic Acids Res., Vol. 13(24), pp. 8765-8785 (1985)
7AN	Thomas, Matthew L., "The Leukocyte Common Antigen Family", Ann. Rev. Immunol., Vol. 7, pp. 339-369 (1989)

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8AA	Tsai, et al., "Isolation and Characterization of Temperature-sensitive and Thermostable Mutants of the Human Receptor-like Protein Tyrosine Phosphatase LAR", JBC, Vol. 266(16), pp. 10534-10543 (1991)
8AB	Ullrich, et al., "Signal Transduction by Receptors with Tyrosine Kinase Activity", Cell, Vol. 61, pp. 203-212 (1990)
8AC	Vandeyar, et al., "A simple and rapid method for the selection of oligodeoxynucleotide-directed mutants", Gene, Vol. 65, pp. 129-133 (1988)
8AD	Weaver, et al., "CD8 ⁺ T-Cell Clones Deficient In the Expression of the CD45 Protein Tyrosine Phosphatase Have Impaired Responses to T-Cell Receptor Stimuli", Molec. Cell. Biol., Vol. 11(9), pp. 4415-4422 (1991)
8AE	Weiss, Arthur, "Molecular and Genetic Insights Into T Cell Antigen Receptor Structure And Function", Annu. Rev. Genet., Vol. 25, pp. 487-510 (1991)
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